

CERTIFICATE OF ACCREDITATION



Eurofins ELS

Wellington

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Programme

Drinking Water Testing Laboratory

Accreditation Number 787

Initial Accreditation Date 14 January 2002

Conformance Standard

ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories
Water Services (Drinking Water Standards for New Zealand) Regulations 2022


Laboratory Services Summary

Analysis

1.12 Waters (Microbiology)
2.41 Waters (Chemistry)

Sampling

1.12 Waters (Microbiology)
2.41 Waters (Chemistry)

Operations Manager Authorisation:		Issue 67	Date:03/03/26	Page 1 of 7
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Eurofins ELS
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 787

Analysis

The following scope of accreditation provides for the testing of potable waters for the purposes of assessing compliance with the Water Services (Drinking Water Standards for New Zealand) Regulations 2022, the Aesthetics Values for Drinking Water Notice 2022 in accordance with the Taumata Arowai publications Requirements Relating to Laboratories 2021 and the Drinking Water Quality Assurance Rules 2022.

1.12 Waters (Microbiology)

(a) Potable waters

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (24th Edition) except where otherwise indicated

Determinand	Method Reference
Cryptosporidium	EPA 1623 (modified)
<i>E. coli</i> – Colilert MPN	9223 B
<i>E. coli</i> – Colilert Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert Quantitray (97 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (97 well)	9223 B
<i>E. coli</i> – MF	9222 I
<i>E. coli</i> – MF	9222 K
Faecal coliforms – MF	9222 D
Giardia	EPA 1623 (modified)
Total coliforms – Colilert MPN	9223 B
Total coliforms – Colilert Quantitray (51 well)	9223 B
Total coliforms – Colilert Quantitray (97 well)	9223 B
Total coliforms – Colilert-18 Quantitray (51 well)	9223 B
Total coliforms – Colilert-18 Quantitray (97 well)	9223 B
Total coliforms – MF	9222 B
Total coliforms – MF	9222 K

2.41 Waters (Chemistry)

(a) Potable waters

INORGANIC DETERMINANDS

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (24th Edition) except where otherwise indicated

Operations Manager Authorisation:		Issue 67	Date:03/03/26	Page 2 of 7
--------------------------------------	--	----------	---------------	-------------



Eurofins ELS
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 787

Determinand	Method Reference
Antimony	3125 B
Arsenic	3125 B
Barium	3120 B
Barium	3125 B
Boron	3120 B
Boron	3125 B
Bromate	4110 D
Cadmium	3125 B
Calcium	3120 B
Calcium	3125 B
Chlorate	4110 D
Chlorine (Total)	4500-CI F
Chlorine (Free Available Chlorine)	4500-CI F
Chlorine (Total)	4500-CI G
Chlorine (Free Available Chlorine)	4500-CI G
Chlorine (Free Available Chlorine) (field test)	4500-CI G
Chlorite	4110 D
Chromium	3120 B
Chromium	3125 B
Copper	3120 B
Copper	3125 B
Cyanide (total)	4500-CN C & E
Fluoride	4110 B
Lead	3120 B
Lead	3125 B
Manganese	3120 B
Manganese	3125 B
Mercury	3125 B
Molybdenum	3125 B
Nickel	3120 B
Nickel	3125 B
Nitrate	4500-NO ₃ I
Nitrate	4110 B
Nitrite	4110 B
Nitrite	4500-NO ₂ B
Selenium	3120 B
Selenium	3125 B
Uranium	3125 B

ORGANIC DETERMINANDS

In accordance with in-house methods based on USEPA methods unless otherwise indicated

Determinand	Method Reference
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Operations Manager Authorisation:		Issue 67	Date:03/03/26	Page 3 of 7
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Eurofins ELS
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 787

Acrylamide	8032A
Alachlor	525.2
Alachlor	In-house
Aldicarb	525.2
Aldicarb	In-house
Aldrin / Dieldrin	525.2
Atrazine	525.2
Atrazine	In-house
Azinphos methyl	525.2
Azinphos methyl	In-house
Benzene	8260
Benzo(a)pyrene	525.2
Bromacil	525.2
Bromodichloromethane	8260
Bromoform	8260
Carbofuran	525.2
Carbofuran	In-house
Carbon tetrachloride	8260
Chlordane	525.2
Chloroform	8260
Chlorpyrifos	525.2
Chlorpyrifos	In-house
Chlorotoluron	525.2
Cyanazine	525.2
2,4-D	In-house
2,4-DB	In-house
DDT and isomers	525.2
1,2-Dibromo-3-chloropropane	8260
Dibromochloromethane	8260
1,2-Dibromoethane	8260
Dichloroacetic acid	In-house
Dichloromethane	8260
Dichlorprop	In-house
1,2-Dichlorobenzene	8260
1,4-Dichlorobenzene	8260
1,2-Dichloroethane	8260
1,2-Dichloroethene	8260
2,4-Dichlorophenol	In-house
1,2-Dichloropropane	8260
1,3-Dichloropropene	8260
Dimethoate	525.2
Dimethoate	In-house
Diuron	525.2
Diuron	In-house
Endrin	525.2
Epichlorohydrin	In-house

Operations Manager
 Authorisation:

Issue 67

Date:03/03/26

Page 4 of 7



Eurofins ELS
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 787

Ethylbenzene	8260
Fenoprop	In-house
Hexachlorobutadiene	8260
Hexazinone	525.2
Hexazinone	In-house
Isoproturon	525.2
Isoproturon	In-house
Lindane	525.2
MCPA	In-house
Mecoprop	In-house
Metalaxyl	525.2
Metalaxyl	In-house
Methoxychlor	525.2
Metolachlor	525.2
Metribuzin	525.2
Metribuzin	In-house
Molinate	525.2
Molinate	In-house
Monochloroacetic acid	In-house
Oryzalin	525.2
Oxadiazon	525.2
Pendimethalin	525.2
Pendimethalin	In-house
Pentachlorophenol	In-house
PFHxS + PFOS	In-house
PFOA	In-house
Picloram	In-house
Pirimiphos methyl	525.2
Pirimisulfuron methyl	525.2
Procymidone	525.2
Propazine	525.2
Pyriproxifen	525.2
Pyriproxifen	In-house
Simazine	525.2
Simazine	In-house
Styrene	8260
2,4,5-T	In-house
Terbacil	525.2
Terbutylazine	525.2
Terbutylazine	In-house
Tetrachloroethene	8260
Thiabendazole	525.2
Toluene	8260
Trichloroacetic acid	In-house
Trichloroethene	8260
2,4,6 Trichlorophenol	In-house
Triclopyr	In-house

Operations Manager Authorisation:		Issue 67	Date:03/03/26	Page 5 of 7
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Eurofins ELS
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 787

Trifluralin	525.2
Trihalomethanes (MAV sum to ratio THMS)	
Vinyl chloride	8260
Xylenes	8260
1080	In-house

AESTHETIC DETERMINANDS

In accordance with APHA Standard Methods for the Examination of Water and Wastewater (24th Edition) except where otherwise indicated

Determinand	Method Reference
Aluminium	3120 B
Aluminium	3125 B
Ammoniacal nitrogen (ammonium)	4500-NH ₃ H
Ammoniacal nitrogen (ammonium)	4500-NH ₃ H (modified)
Calcium Hardness	3500-Ca B
Chloride	4500-Cl B
Chloride	4110 B
Colour @ 455nm	2120 C (modified)
Colour @ 270 nm (calculation)	In-house
Copper	3120 B
Copper	3125 B
2 Chlorophenol	In-house (LCMSMS)
2,4-Dichlorophenol	In-house (LCMSMS)
1,2-Dichlorobenzene	EPA 8260 (SHSGCM)
1,4-Dichlorobenzene	EPA 8260 (SHSGCM)
Ethylbenzene	EPA 8260 (SHSGCM)
Hardness (total)	2340 C
Hardness (total) (calculation)	2340 B
Iron	3120 B
Iron	3125 B
Magnesium	3120 B
Manganese	3120 B
Manganese	3125 B
Monochlorobenzene	EPA 8260 (SHSGCM)
pH	4500-H ⁺ B
pH (field test)	4500-H ⁺ B
Sodium	3120 B
Sodium	3125 B
Sulphate	4110 B
Temperature	2550 B
Temperature (field test)	2550 B
Toluene	EPA 8260 (SHSGCM)
Total dissolved solids	2540 C

Operations Manager Authorisation:		Issue 67	Date:03/03/26	Page 6 of 7
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Eurofins ELS
 Drinking Water Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 787

Trichlorobenzenes (total)	CALCULATION
1,2,3-Trichlorobenzene	EPA 8260 (SHSGCM)
1,2,4-Trichlorobenzene	EPA 8260 (SHSGCM)
1,3,5-Trichlorobenzene	EPA 8260 (SHSGCM)
Turbidity	2130 B
Turbidity (field test)	2130 B
Xylenes	EPA 8260 (SHSGCM)
Zinc	3120 B
Zinc	3125 B

Sampling

1.12 Waters (Microbiology)

2.41 Waters (Chemistry)

(a) Potable waters

Sampling of potable water in accordance with in-house procedures based on AS/NZS 5667

Operations Manager
 Authorisation:

Issue 67

Date:03/03/26

Page 7 of 7